

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 72-9

WASTE DISCHARGE REQUIREMENTS
FOR
SAN FRANCISCO PORT COMMISSION

The California Regional Water Quality Control Board, San Francisco Bay Region, finds that:

- A. The City and County of San Francisco, San Francisco Port Commission, called the discharger below, submitted a report of waste discharge dated October 5, 1971.
- B. That report and additional data submitted on December 10, 1971 and January 11, 1972 state that the Port Commission proposes to construct a four-berth shipping terminal in San Francisco Bay at Pier 94 near Islais Creek. This project is described as being bounded by Islais Creek Channel, Arthur Avenue, and the Lash Terminal now being constructed. The construction will include the dredging of up to 2.2 million cubic yards of mud, the placement of approximately eight acres of new solid fill, and the installation of approximately six acres of pile-supported concrete apron. A large portion of the fill will be sand and some Class III waste.
- C. The Board adopted an interim water quality control plan for the San Francisco Bay Basin on June 14, 1971.
- D. The beneficial uses of San Francisco Bay are:
 - Industrial cooling
 - Swimming, wading, pleasure boating, and fishing
 - Firefighting and industrial washdown water supply
 - Fish, shellfish, and wildlife propagation and sustenance, and waterfowl and migratory birds habitat and resting
 - Navigation channels and port facilities
 - Esthetic appeal
- E. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge.
- F. The Board in a public meeting on March 28, 1972 heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, the discharger shall comply with the following:

A. Discharge Specifications

- 1. The disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
- 2. Waste material exclusive of native muds shall be confined to the disposal site at all times.
- 3. Any additional fill placed in the following areas shall be limited to Class III material (including wood with any minimum dimension of greater than 1 inch after its emplacement) as defined in Board Resolution No. 69-42:
 - a. Along the Bay frontage portion of the project seaward of a line 400 feet inland from an extension of the existing Lash pier line (Pier 96).

- b. Along the Islais Creek frontage, within 150 feet inland of the existing mean lower low water line.
- 4. Material dredged from the existing debris dike may be used as fill in back area of the project if the use of that material does not affect water quality. Back area, in this case, is defined as being at least 500 feet inland from the existing mean lower low water line.
- 5. The disposal of any additional Class I or II material at this site (easterly of Arthur Avenue) is prohibited as of March 28, 1972.
- 6. The movement closer to the waters edge of any material previously placed on this site (easterly of Arthur Avenue) is prohibited; however, material may be graded behind the lines described in 3. above.
- 7. The activity exclusive of the disposal of native muds shall not cause:
 - a. Any alteration in turbidity or discoloration beyond natural background levels in waters of the State at any place. Minimal turbidity and discoloration may be permitted during excavation and filling activities.
 - b. Any foam, oil, or grease in waters of the State at any place.
 - c. Floating material at any place outside the debris fence.
 - d. Waters of the State to exceed the following limits of quality at any point:

Dissolved oxygen	5.0 mg/l minimum
Dissolved sulfide	0.1 mg/l maximum
pH	7.0 minimum 8.5 maximum
Other substances	Any one or more substances in concentrations that impair any of the protected beneficial water uses or make aquatic life or wildlife unfit or unpalatable for consumption.
- 8. Leachate or ponded water containing leachate shall not be discharged to the waters of the State.

B. Provisions

1. REPORTING REQUIREMENTS

- a. This Order includes items numbered 1, 6 and 7 of the attached "Reporting Requirements" dated August 28, 1970.
- b. Prior to discontinuing the fill at this site and/or the use of this site for waste disposal the discharger shall submit a technical report describing the methods to be used to provide continued protection of surface waters and groundwaters.

2. NOTIFICATIONS

- a. This Order includes items numbered 1, 2, 3, 4, 5 and 6 of the attached "Notifications" dated January 6, 1970.
- b. If any dredged material is to be deposited as hydraulic fill with discharge from the fill area to waters of the State or if any material is to be removed by hydraulic dredging, the discharger shall file a report of such discharge pursuant to Section 13260 of the California Water Code.
- c. If the discharger proposes any change from the construction methods described in the report

of waste discharge of October 5, 1971, and the letters of September 30, 1971, December 10, 1971, and January 11, 1972, it will be necessary for him to file a new report of waste discharge and receive amended requirements before proceeding with the new method.

- d. This Board considers the discharger to have a continuing responsibility for correcting any problems which may arise in the future as a result of this activity.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on March 28, 1972.

Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

August 28, 1970

REPORTING REQUIREMENTS

1. This Board requires the discharger to file technical reports on self-monitoring work performed according to detailed specifications developed pursuant to the Regional Board's Resolution No. 70-43. (Reference: Section 13267(b) and 13268, California Water Code.)
2. This Board requires the discharger to file a written report within 90 days after the average dry-weather waste flow for any month equals or exceeds 80% of the design capacity of his waste treatment and/or disposal facilities. The discharger's senior administrative officer shall sign a letter which transmits that report and certifies that the policy-making body is adequately informed about it. The report shall include:

Average daily flow for the month, the date on which the instantaneous peak flow occurred, the rate of that peak flow, and the total flow for that day.

The discharger's best estimate of when the average daily dry-weather flow rate will equal or exceed the design capacity of his facilities.

The discharger's intended schedule for studies, design, and other steps needed to provide additional capacity for his waste treatment and/or disposal facilities before the waste flow rate equals the capacity of present units. (Reference: Sections 13260, 13267(b) and 13268, California Water Code.)
3. This Board requires the discharger to file a time schedule for engineering studies on facilities needed to comply with the Board's receiving water objective of 5.0 mg/l of dissolved oxygen and/or to file a time schedule for deciding upon the feasibility of participating in regional water quality control systems, if he does not meet that dissolved oxygen objective after providing waste treatment facilities which comply with the effluent BOD requirement prescribed elsewhere in this Resolution. (Reference: Sections 13267(b) and 13268, California Water Code.)
4. This Board requires the discharger to file technical reports on studies into correcting violations of the Board's water quality objectives caused by discharging combined storm water and sewage. Specifications for these studies shall be developed pursuant to the Board's Resolution No. 70-43. (Reference: Sections 13267(b) and 13268, California Water Code.)
5. This Board requires the discharger to file written reports within 15 days after each calendar quarter to include:

Name of and number of lots in each subdivision for which an application has been received for connection to the sewerage system. Anticipated date of connection of each subdivision to the sewerage system.

Finding and supporting data by governing body on effect of addition of each subdivision on violation of waste discharge requirements.

(Reference: Section 11551.6 Business and Professions Code and Section 13267(b) and 13268, California Water Code.)
6. This Board requires the discharger to file a report on waste discharge at least 120 days before making any material change or proposed change in the character, location or volume of the discharge. (Reference: Sections 13260(b) and 13264, California Water Code.)
7. This Board requires the discharger to file a written technical report at least 15 days prior to advertising for bids on any construction project which would cause or aggravate the discharge of waste in violation of these requirements; said report to describe the nature, costs, and scheduling of all actions necessary to preclude such discharge. In no case should any discharge of sewage bearing wastes be permitted without at least primary treatment and chlorination. (Reference: Sections 13267(b) and 13268, California Water Code.)

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

January 6, 1970

NOTIFICATIONS

1. This Board requests the discharger to take note of the comments and recommendations contained in all the correspondence the Board has received and considered concerning this matter, and the Executive Officer is directed to transmit copies of that correspondence to the discharger.
2. This Board considers "Waters of the State" as defined in Section 13050(e) of the California Water Code to include waste waters over which the discharger has lost control.
3. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another, nor protect the discharger from his liabilities under Federal, State, or local laws, nor guarantee the discharger a capacity right in the receiving waters.
4. This Board will prescribe more restrictive requirements for this waste discharge if necessary:
 - To achieve or maintain dissolved oxygen concentration of at least 5.0 mg/l in tidal waters of the San Francisco Bay System pursuant to Resolution No. 67-30,
 - To protect shellfishing areas which the Board designates pursuant to Resolution No. 803,
 - To protect the beneficial water uses, and to achieve other objectives adopted in the resolutions cited above.
5. This Board will review these requirements periodically, as required by law, and will notify the responsible persons before doing so. (Reference: Section 13263(e), California Water Code.)
6. The water quality parameters used in this resolution are as defined in the latest edition of "Standard Methods for the Examination of Water and Wastewater" by the American Public Health Association.
7. The discharger is advised that this Board will use the general concepts of Phase I of the plan recommended by the Final San Francisco Bay-Delta Program Report as guidelines in reviewing any application for construction grants for sewerage facilities proposed to comply with these requirements, and if the discharger intends to make such application he must demonstrate the compatibility of the proposed facilities with the general concepts of the Bay-Delta Program.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

REVISED

SELF-MONITORING PROGRAM
FOR

SAN FRANCISCO PORT COMMISSION

PIER 94

ORDER NO. 72-9

Initial effective date April 24, 1972

revised effective September 23, 1976

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

FOR
Pier 94
SAN FRANCISCO PORT COMMISSION
SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO COUNTY

May 1972
September 1976

I. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principal purposes of a monitoring program by a waste discharger, also referred to as self-monitoring program, are: (1) to document compliance with waste discharge requirements and prohibitions established by this Regional Board, (2) to facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge, (3) to develop or assist in the development of effluent or other limitations, discharge prohibitions, national standards of performance, pretreatment and toxicity standards, and other standards, and (4) to prepare water and wastewater quality inventories.

II. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to the latest edition of "Standard Methods for the Examination of Water and Wastewater" prepared and published jointly by the American Public Health Association, American Water Works Association, and Water Pollution Control Federation, or other methods approved and specified by the Executive Officer of this Regional Board.

Chemical, bacteriological, and bioassay analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health. In the event a certified laboratory is not available to the discharger, the executive officer may accept analyses performed by a noncertified laboratory until June 22, 1977, provided that the laboratory has applied for certification.

III. DEFINITION OF TERMS

A. Grab Sample

Grab sample means a receiving water sample collected at any time from any point in the receiving waters, and within one (1) foot of the surface of the receiving waters.

B. General Requirements

Reporting of accidental spill of waste or other pollutants--accidental spill shall be reported to this Regional Board by telephone immediately after it occurs. The subsequent written report shall be filed within fifteen (15) days and shall contain information relative to:

1. Nature of waste or pollutant,
2. Quantity involved,
3. Cause of spilling,
4. Estimated size of affected area,
5. Nature of effects (i.e., fish kill, discoloration of receiving water, etc.), and
6. Corrective measures that have been taken, or planned, and a schedule of these activities.

C. Standard Observations

Standard observations shall include determinations of the following:

1. Perimeter of fill face and adjacent receiving waters:

- a. Evidence of leachate (as defined in California Administrative Code, Title 23, Section 2500), seepage, drainage, effluent or surface water of the State, emanating from the fill project, which contains substances that violate any of the following parameters, at any place:
 - (1) Dissolved oxygen: 5.0 mg/l minimum;
 - (2) Dissolved sulfide: 0.1 mg/l maximum;
 - (3) pH: 7.0 to 8.5;
 - (4) Any other substance which may impair any protected beneficial uses, may be harmful to aquatic life or wildlife, or may render aquatic life or wildlife unfit or unpalatable for consumption;
- b. Odor: Presence, or absence characterization, source, and distance of travel.
- c. Evidence of ponded water on the top of the fill.
- d. A sketch shall be submitted with each report showing the locations and estimated sizes of a, b, and c.

2. Receiving Water:

Evidence of:

- a. any floatable material from being in any position where it is, or can be, in contact with surface waters of the State or can be carried from the site and deposited in the waters of the State;
- b. the erosion of the perimeter of the fill project;
- c. the creation of any condition of pollution or nuisance as defined in section 13050 of the California Water Code;
- d. the presence of foam, grease, or oil in waters of the State, at any place.
- e. the fill project causing any alteration in turbidity or discoloration beyond natural background levels in waters of the State. Temporary turbidity or discoloration which occurs during actual placement of fill material will not be regarded as a violation of this provision.
- f. Odor: Presence or absence, characterization, source, distance of travel.
- g. Evidence of beneficial water use.
 - (1) Fishing - estimated number of fishermen in the vicinity of the sampling stations.
 - (2) Waterfowl and other water-associated wildlife - estimated number in water and adjacent land area.
 - (3) Recreational boating - estimated number.
- h. Hydrographic condition.
 - (1) Time and height of high and low tides corrected to nearest location, for the sampling date, and time of sample collection.
 - (2) Water sampling depths.
- i. Weather condition.
 - (1) Air and water temperatures.
 - (2) Wind - direction and estimated velocity.
 - (3) Precipitation - total precipitation during the previous five days and on the day of observation.

3. Periphery of Fill Area

Item III-C-2f, relative to receiving water odor observation, and Item III-C-2i(2), relative to wind observations, will apply.

4. Fill Materials

- a. Inspect and report on all wastes other than: earth, rock, concrete, reinforced concrete, asphalt paving fragments, brick, clay products, and glass.
- b. Report number of loads dumped on site per day.
- c. Report number of loads rejected or removed from site because of illegal materials (including wood particles).

IV. SAMPLING STATIONS

A. Leachate

L-1
through
L-n

Located along the edge of the fill at each point from which liquid is observed to be leaching. The discharger shall designate these in numerical order counter-clockwise from the southwestern corner of the fill.

B. Receiving Waters

Stations to be sampled routinely

C-1
through
C-n

Located in the receiving water at 100 feet intervals along the entire face of the fill as close to the shoreline as can be reached safely from a shallow-draft boat. These stations shall bear the designation "C" (i.e., C-1, C-2, etc.).

Stations to be sampled when leachate enters the receiving waters

CL-1
through
CL-n

Located in the receiving water immediately offshore from each "L" station and as close to the waterline as can be reached safely from either a shallow-draft boat or from shore, whichever provides access closer to the waterline. The discharger shall designate these as "CL-1" through "CL-n", using numbers identical with those for the related "L" stations.

C. Land Observation

P-1
through
P-n

Located along the periphery of the fill site at approximately equal intervals not exceeding 200 feet. The discharger shall designate these in numerical order counter-clockwise from the southwestern corner of the fill.

V. SCHEDULE OF SAMPLING, ANALYSIS, AND OBSERVATIONS

Sampling, analysis, and observations shall be performed as specified in Table I.

VI. RECORDS TO BE MAINTAINED

A. Written records shall be maintained showing the following for each sample:

1. Identity of sampling and/or observation stations by number.
2. Date and time of sampling and/or observations.
3. Date and time that analyses are started and completed and name of personnel performing the analyses.
4. Complete procedure used, including method of preserving sample, and identity and volumes of reagents used. A reference to specific section of "Standard Methods" is satisfactory.
5. Calculations of results.
6. Results of analyses and/or observations.

VII. REPORTS TO BE FILED WITH THE REGIONAL BOARD

A. Accidental Spills

Written reports on each accidental spill shall be filed no later than 15 days after the event. Refer to Section III B above for instructions about telephone reporting at the time of each spill, and for details of the report.

B. Regular Monitoring Reports

Reports pursuant to the routine Self-Monitoring as specified in Sections V and VI above shall be filed for each calendar month by the fifteenth (15) day of the following month. Each such report shall include the data specified below, presented in orderly tabulations, or summary statements for information more readily expressed verbally:

1. Analytical data for each constituent of each sample collected at each receiving water and leachate station, including:
 - a. Number of days on which analyses were performed.
 - b. Results of analyses, observations, and measurements obtained in mg/l or other units.
 - c. Number and percent of days on which determinations were made which were in excess of the requirements.

2. Results of all observations made.
3. Map showing the location of each "C", "CL", "L", and "P" Station, the fill area, and adjoining features adequate to relate the data thereto.

VIII. LETTER OF TRANSMITTAL

A letter transmitting self-monitoring reports should accompany each report. Such a letter should be signed by the official of the discharger who has the overall responsibility for the self-monitoring program, and said letter shall contain a statement by said official under penalty of perjury that to the best of the signer's knowledge the report is true and correct.

IX. CONDITIONS

- A. The Regional Board's staff or representatives shall be allowed to inspect the site without advance notice to the defendant, provided that any such inspections occur during daylight hours, Monday through Friday, and that the Regional Board's staff notify the Port's Engineering Office immediately by telephone if any violations are noted.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger. Revisions will be ordered by the Executive Officer.

FRED H. DIERKER
Executive Officer

Attachment:
Table I

date ordered: September 23, 1976

SAN FRANCISCO PORT AUTHORITY

PIER 94

TABLE I

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSES

Footnotes	Sampling Station	Type of Sample	pH (units)	Dissolved Oxygen (mg/l)	Temperature (°C)	Secchi Disc (inches)	Sulfides, Total & Dissolved (mg/l)	All Applicable Standard Observations
(1) (2) (3) (4)	C Stations	Grab	W	W	W	W	W	
(1) (3) (4)	L Stations	Grab	E	E	E	E	E	D
(1) (2) (3)	CL Stations	Grab	E	E	E	E	E	W
(1) (4)	P Stations	Observation						W
	Fill Material	Observation						D

D = daily

E = each occasion, but only once per week at each

W = weekly

"L" and "CL" station

FOOTNOTES:

- (1) All observations (e.g., floating debris, odors, etc.) and station locations and designations are to be shown on a sketch, drawn to a convenient scale, and these sketches shall accompany each report.
- (2) Two reference stations at least 400 feet from the fill and in two separate areas that are unaffected by waste discharges shall be designated. When the D.O. at any "C" station is equal to or exceeds the mean D.O. of the two reference stations for 4 consecutive weeks, then that "C" station need only be monitored monthly. When the D.O. at any "C" station being monitored monthly is less than the above mean D.O., then that station must be, again, monitored weekly.
- (3) All standard observations and water sampling shall be made during a period when the predicted tidal elevation is less than +1.0 feet above MLLW and during an ebbing tide during regular working hours. The only exception shall be when the above is not possible, and then sampling and observations shall be at the lowest tide during regular working hours.
- (4) Each time a violation is noted and corrected, follow-up inspections will be made daily for at least five (5) days to determine and document the effectiveness of the corrective action.